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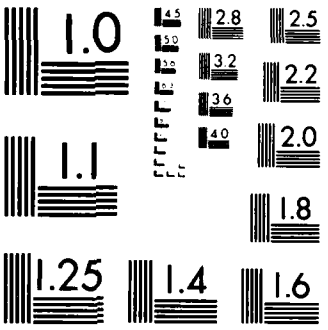

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ANNEX C
TO
INDEPENDENT EVALUATION PLAN
FOR THE
JOINT OPERATIONAL TEST AND EVALUATION OF
ADVANCED ANTI-ARMOR VEHICLES (ARMVAL)

27 JULY 1979

PREPARED UNDER CONTRACT NUMBER MDA-903-78-C-0359
FOR THE OFFICE OF THE DIRECTOR OF DEFENSE
TEST AND EVALUATION
OFFICE OF UNDER SECRETARY OF DEFENS-
(RESEARCH AND ENGINEERING)
WASHINGTON, D.C. 20301

PREFACE

This Annex to the ARMVAL Independent Evaluation Plan provides the proposed Threat weapons systems and tactics for the ARMVAL field experiments. After formal coordination with the Army, Marine Corps and Department of Defense Intelligence authorities, it will provide the basis for the scenarios for the field experiments.

ANNEX C

to the

Independent Evaluation Plan for Joint Operational Test and Evaluation of Advanced Anti-Armor Vehicles (ARMVAL)

THREAT WEAPONS SYSTEMS AND TACTICS

Threat weapons systems characteristics to be used in the ARMVAL Joint Operational Test and Evaluation (JOTE) are contained in the references listed in the appendix to this annex.

The Threat portrayal, below, for each of the four planned experiments of the field test was developed by ORI and the intelligence officer of the ARMVAL Joint Test Directorate (JTD) in consultation with knowledgeable officials of the Defense Intelligence Agency (DIA), the Army and Marine Corps. In cases where differences of opinion have arisen the judgement and guidance of DIA have been followed. Threat forces will be represented as elements of a reinforced motorized rifle battalion and the reinforced tank regiment of the motorized rifle division located within and adjacent to the area of operations of the Friendly force. They have been tailored to provide Friendly-to-Threat force ratios appropriate to each tactical situation. Schematics showing Threat play for each experiment are contained in figures C-1 through C-6.

Experiment I

Friendly situation: A surrogate equipped force has been inserted by helicopter into the southern portion of the Amphibious Objective Area (AOA) to establish a blocking position to deny Threat reinforcement from the South.

Threat Mission: A tank battalion, reinforced from the tank regiment, is ordered to eliminate the blocking force and seize objectives within the Friendly helicopte landing zones.

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Military Staff Assistant for
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PREFACE

This Annex to the ARMVAL Independent Evaluation Plan provides the proposed Threat weapons systems and tactics for the ARMVAL field experiments. After formal coordination with the Army, Marine Corps and Department of Defense Intelligence authorities, it will provide the basis for the scenarios for the field experiments.

ACKNOWLEDGEMENT

This Annex was prepared by ORI, Inc. for the Director, Defense Test and Evaluation, Office of the Under Secretary of Defense (Research and Engineering). While many people at the Joint Test Directorate and ORI contributed to the Annex, it is almost totally the work of CWO Fred L. Weaver (USMC) of the JTD and Major General W. R. Kraft (USA-Ret.), ORI Consultant. ORI is solely responsible for its content.

ANNEX C
to the
Independent Evaluation Plan for Joint Operational Test and Evaluation of Advanced Anti-Armor Vehicles (ARMVAL)

THREAT WEAPONS SYSTEMS AND TACTICS

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The Threat portrayal, below, for each of the four planned experiments of the field test was developed by ORI and the intelligence officer of the ARMVAL Joint Test Directorate (JTD) in consultation with knowledgeable officials of the Defense Intelligence Agency (DIA), the Army and Marine Corps. In cases where differences of opinion have arisen the judgement and guidance of DIA have been followed. Threat forces will be represented as elements of a reinforced motorized rifle battalion and the reinforced tank regiment of the motorized rifle division located within and adjacent to the area of operations of the Friendly force. They have been tailored to provide Friendly-to-Threat force ratios appropriate to each tactical situation. Schematics showing Threat play for each experiment are contained in figures C-1 through C-6.

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Threat Mission: A tank battalion, reinforced from the tank regiment, is ordered to eliminate the blocking force and seize objectives within the Friendly helicopter landing zones.

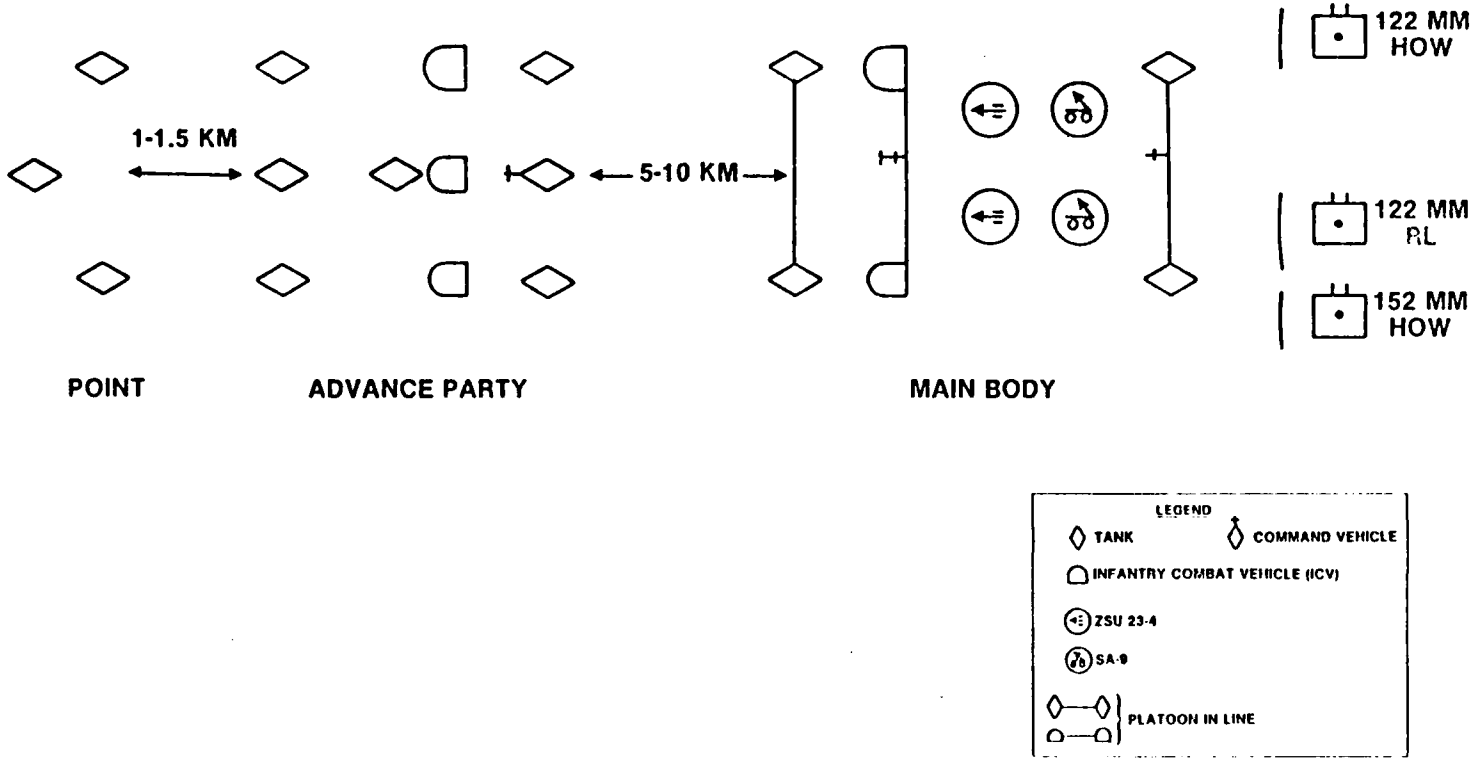

FIGURE C-1. EXPERIMENT I THREAT APPROACH MARCH

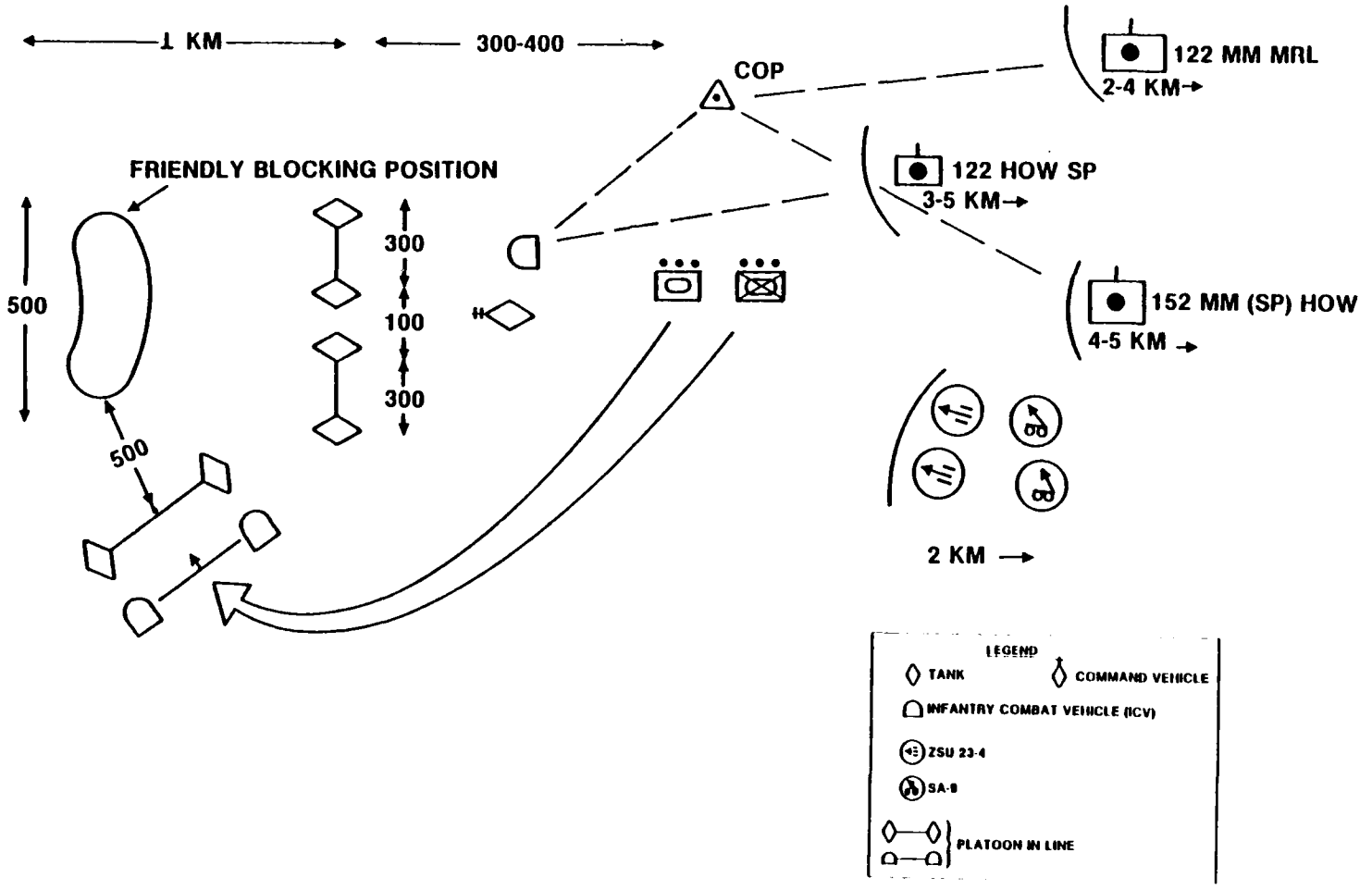

FIGURE C-2. EXPERIMENT I THREAT ATTACK

Force Composition: The Threat force for the experiment will represent the advance party of the tank regiment as it advances toward the blocking position. It will consist of:

one tank company (10 tanks)
one motorized rifle platoon (3 infantry combat vehicles)
122 mm How battery commander

Scheme of maneuver: The advance party will move in approach march formation (column of platoons in line, tank platoons leading) until contact is made. The two lead platoons will be prepared to form a skirmish line/base of fire to engage the Friendly blocking force while the other two platoons execute a flanking maneuver. All platoons will participate in the assault.

Fire Support: Artillery:

two 122 mm How batteries
one 152 mm How battery (SP)
one 122 mm MRL battery

The commander of one of these 122 mm How batteries will position himself close to the advance party commander and respond to requests for fires. Artillery fire support will be monitored from the battalion and regimental command observation posts (COP).

Air Defense: two ZSU 23-4 and two SA-9 which will follow the advance party.

Experiment II

Friendly situation: Friendly forces landing on the beach have joined with the helicopter landed forces. This combined force, now equipped with tanks and armored personnel carriers in addition to the air landed surrogates, has destroyed the major portion of the Threat motorized rifle battalion within the force beachhead line and is now conducting operations against the remaining small pockets of resistance.

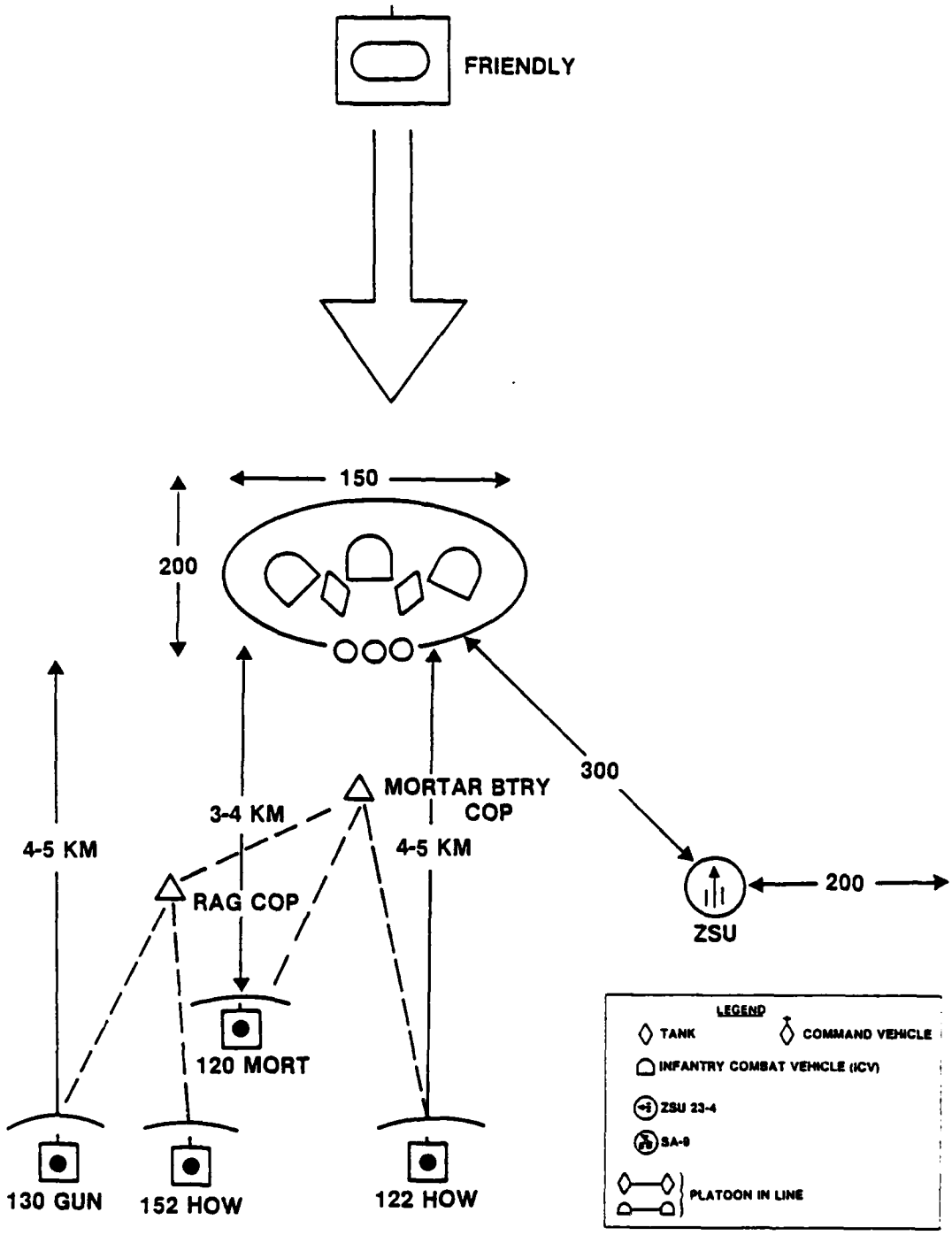

FIGURE C-3. EXPERIMENT II THREAT DEFENSE

Threat mission: A remaining element of the motorized rifle battalion is a reinforced rifle platoon. This platoon has been ordered to establish a hasty defense position from which to destroy or delay the advance of Friendly forces.

Force Composition of the experiment:

one motorized rifle platoon (three
Infantry Combat Vehicles (ICVs))
one tank platoon(-) (two tanks)
mortar battery and Regimental
Artillery Group (RAG) COPs

Scheme of defense: Engage Friendly armor at maximum ranges with ATGMs and with tanks when targets come within effective range. Firing vehicles move to selected alternate positions after firing.

Fire Support: Artillery:

one 120 mm mortar battery
one 122 mm How battalion
one 152 mm How battalion
one 130 mm gun battaltion

Supporting fires will be adjusted by mortar battery COP and RAG COP.

Air Defense: A battery of ZSU 23-4 is positioned where it can cover the platoon.

Experiment III

Friendly situation: A Friendly force equipped with surrogates and AT weapons from a helicopter landed battalion is proceeding to establish a blocking position south of the landing zone. The company is moving by march column.

Threat mission: A motorized rifle regiment has been ordered to move toward and seize objectives within the Friendly landing zone area. The regiment moves in march column with a reinforced motorized rifle company as the advance party. A point platoon precedes the main part of the advance party by one to one and a half kilometers. A meeting engagement occurs between the point and Friendly advance elements.

Force composition for the experiment:

Point (3 ICVs, 3 engineer and chemical reconnaissance vehicles)
Advance Party(-) (7 ICVs, 4 tanks, mortar battery command vehicle, engineer and chemical vehicles)

Scheme of maneuver: The point and advance party(-) will attempt to maintain the advance by fire and maneuver. In the event forward progress is not feasible the advance party will establish a skirmish line to support committment of the advance guard when it arrives on the scene. (The experiment will terminate before arrival of the advance guard.)

Fire Support: Artillery:

one 120 mm mortar battery
one 122 mm How battalion (SP)

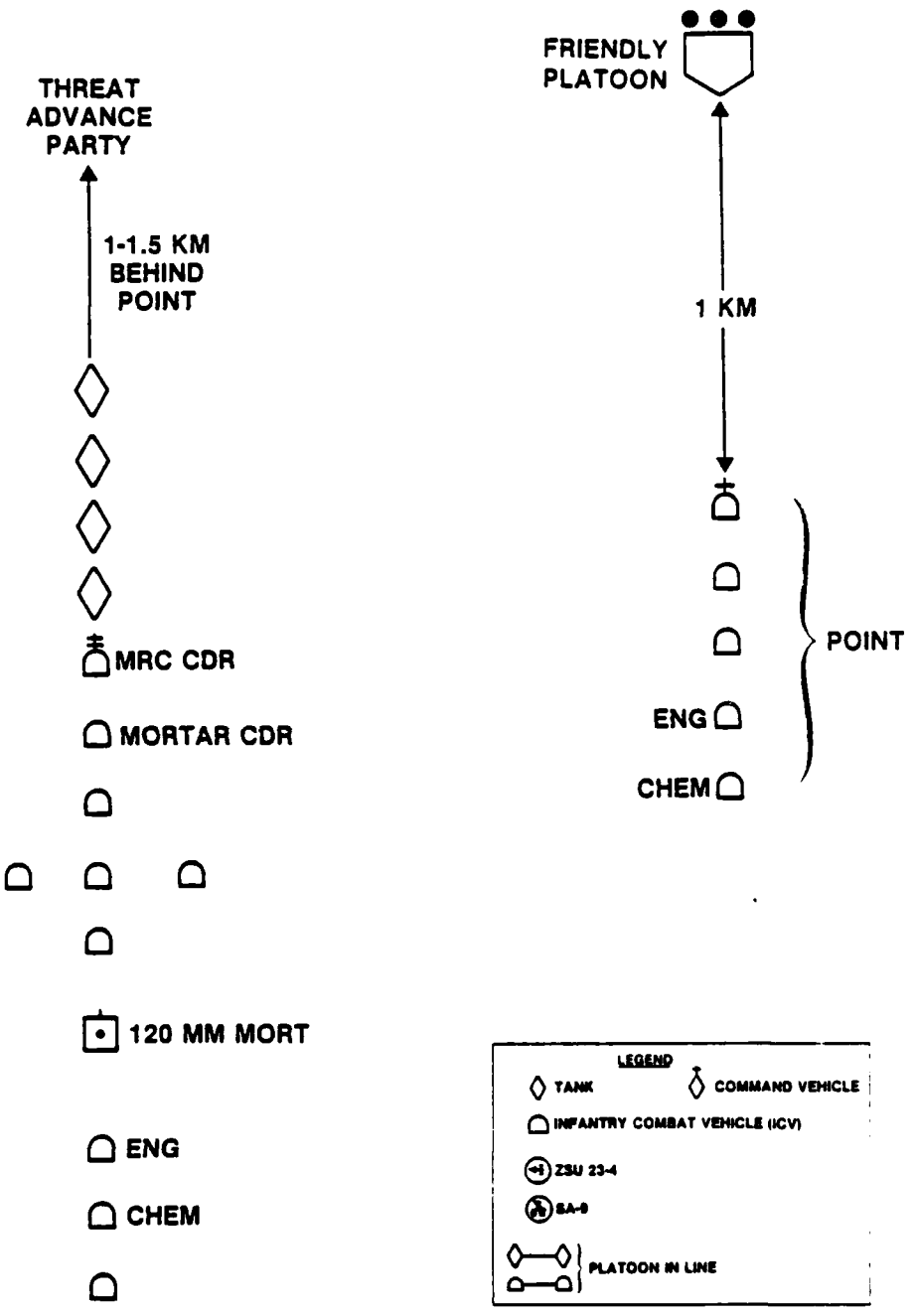

FIGURE C-4. EXPERIMENT III THREAT APPROACH MARCH

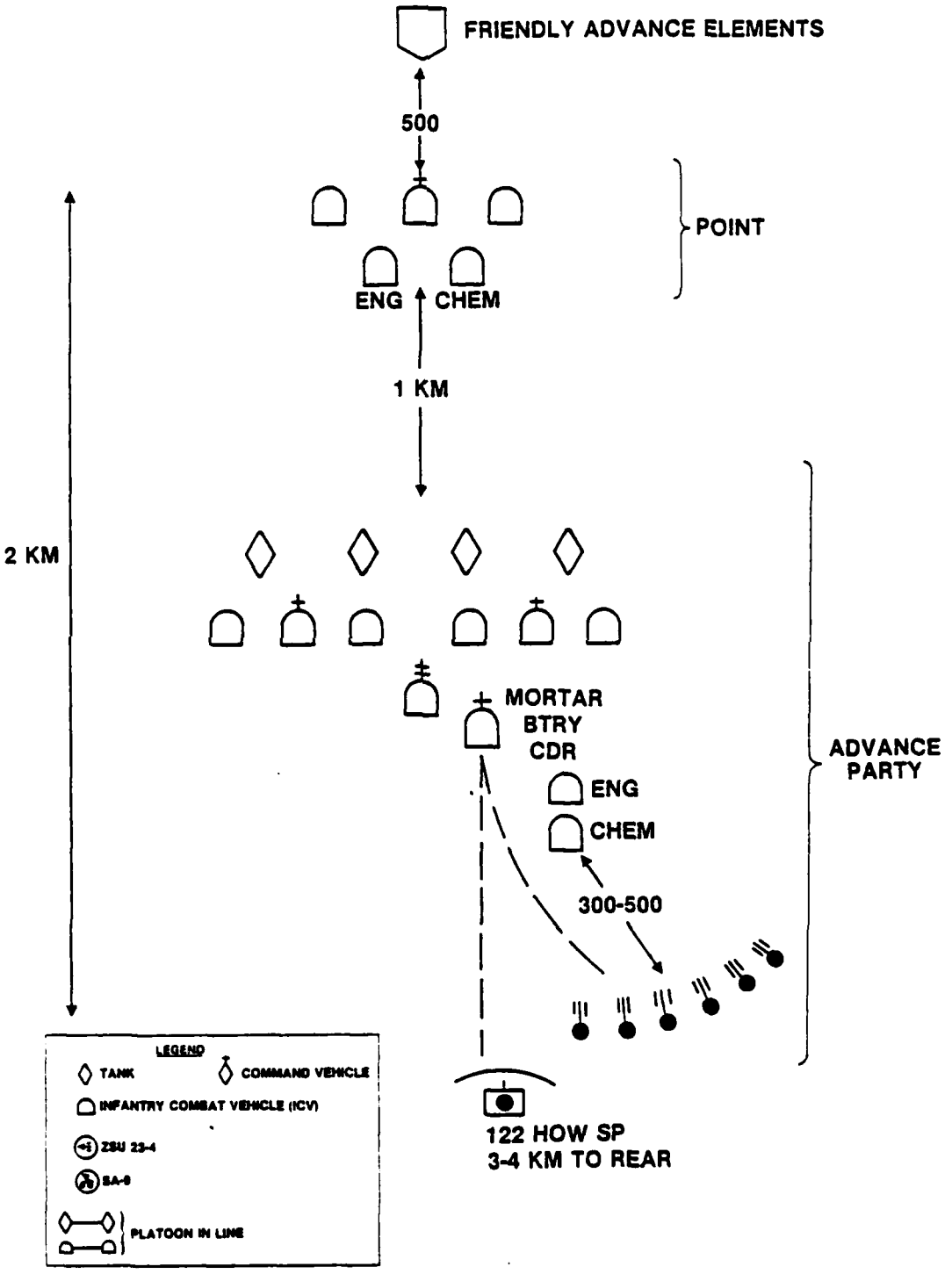

FIGURE C-5. EXPERIMENT III THREAT DEPLOYMENT ON CONTACT

The mortar battery commander will call for fires using communications in his command vehicles which stays close to that of the advance party commander.

Air Defense: ZSU 23-4 and SA-9 with the advance guard.

Experiment IV

Friendly situation: Forces landing over the beach continue to link-up with helicopter landed force inland. A forward edge of the battle area (FEBA) has been established within the force beachhead line (FBHL) consisting of reinforced rifle company strong points responsible for frontages of 1000 to 1500 meters.

Threat mission: A motorized rifle battalion is ordered to penetrate the FEBA and seize objectives within the FBHL. Two reinforced companies form the first attacking echelon. The right company has been selected to make the main attack and has been reinforced with two tank platoons, plus the company command tank.

Force composition for the experiment:

one motorized rifle company (10 ICVs)
two tank platoons (9 tanks)
mortar battery command vehicle
battalion COP, RAG COP

Scheme of maneuver: A 30 minute artillery preparation will precede the attack (play will commence after the preparation is lifted). Under cover of smoke one tank and one motorized rifle platoon will establish a skirmish line/base of fire to fix the Friendly force. two motorized rifle platoons and the other tank platoon will execute a flanking maneuver.

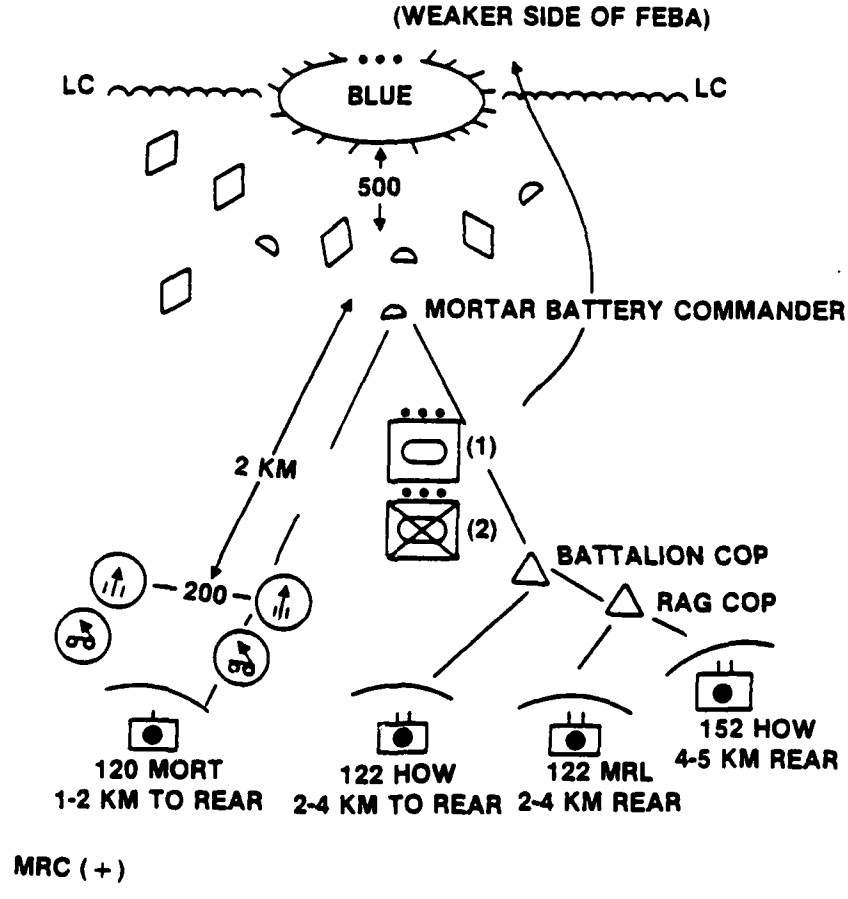

FIGURE C-6. EXPERIMENT IV THREAT ATTACK

Fire Support: Artillery:

one 120 mm mortar battery
one 122 mm How battalion
one 152 mm How battalion
one 122 mm MRL battalion

The mortar battery commander will call for and adjust fires of the mortar battery of the 122 mm How battalion through the battalion COP and of the 152 How and MRL battalion through the RAG COP.

Air Defense: Two ZSU 23-4 and two SA-9 positioned in rear of attacking echelon.

Appendix to Annex C

Chapter 4 of the Scenario Oriented Recurring Evaluation System (SCORES) Europe III Threat (Draft), December 1978 published by the U.S. Army Combined Arms Combat Development Activity of Ft. Leavenworth, Kansas, will be used to determine the expected characteristics of 1986 Threat systems. References below pertain to paragraphs and figures in Chapter 4 which are applicable. ORI and the JTD have established a point of contact within DIA through which changes, modifications and additional information may be received before and during the Joint Operational Test and Evaluation.

Tanks - paragraph 1c, d, e, and Figure 171 (column 3) and Figure 172

Infantry combat and armored reconnaissance vehicles - paragraph 2b, c, g, h, and Figure 173, 174 (column 6 and 7, 176

Anti-tank guided missiles - paragraph 3c, and Figure 177 (column 3)

Artillery, mortars and multiple rocket launchers - paragraph 4b, (1), (2), (3), 4c (1), 4d (1), 4e

Air Defense - paragraphs 5a (5), (6), 5b (7) (8), and Figures 193, 194, 200.

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